

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/020571

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G07G1/00 G01G19/414		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G07G B65B B26D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 248 244 A (NCR INT INC) 9 October 2002 (2002-10-09) the whole document	1-32
A	US 2001/024157 A1 (MERK LOTHAR ET AL) 27 September 2001 (2001-09-27) abstract paragraph '0020! - paragraph '0079! claims 1-24	1-32
A	US 5 666 866 A (HUANG JOSEPH CHUN-CHI ET AL) 16 September 1997 (1997-09-16) abstract figure 1	3-5, 18, 24, 32
A	EP 0 087 310 A (SIVEWRIGHT ALAN JAMES ; JACKSON MICHAEL (GB)) 31 August 1983 (1983-08-31) abstract; figures 1, 2	13, 19
<input type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
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Date of the actual completion of the international search 11 November 2004		Date of mailing of the international search report 18/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Guenov, M

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1248244	A	09-10-2002	US 2002139617 A1	03-10-2002
			EP 1248244 A2	09-10-2002
			JP 2003058947 A	28-02-2003
US 2001024157	A1	27-09-2001	DE 10055602 A1	12-07-2001
US 5666866	A	16-09-1997	CA 2193377 A1	24-10-1996
			DE 69617357 D1	10-01-2002
			DE 69617357 T2	08-05-2002
			EP 0767724 A1	16-04-1997
			WO 9633053 A1	24-10-1996
EP 0087310	A	31-08-1983	EP 0087310 A1	31-08-1983
			GB 2115564 A , B	07-09-1983